

MSG 200 - RED FD14 MISSION SUMMARY

A Hearty Howdy to the Red Team! FD14 has a few additions: CONNECT 6 for Laurel, some ground commanded MIST runs, and just a few tweaks to MEIDEX ops and playback times to line up with Ku coverage. We have also uplinked the Spacehab WSA Vacuum Clean-up IFM early for your review. It will be scheduled for Rick and KC on Red FD 15.

All of MCC, most especially Yoya, enjoyed your poem for him. Yoya was very appreciative of your poetic efforts. Also, your words in remembrance of the Challenger and Apollo 1 crews really added to the significance of the moment and were very much appreciated.

The Brazilian smoke plume observations yesterday, skillfully executed by Ilan, marked an unexpected success for MEIDEX, and another first from space! The FREESTAR POCC sends its thanks to the crew and everyone involved in setting up this last minute request. No SOLSE or SOLCON observations planned for today. But CVX completed its 4th critical period, and LPT continues to build up its already extensive data set.

Appreciation to STS-107 crew from MIST experiment: Infinite thanks for helping us turn from misty blue to burning mist! All that hard work with the convoluted APs, MALs, and IFMs really paid off. We are now in fire-suppression science data-taking mode.

YOUR CURRENT ORBIT IS: 151 X 140 NM

NOTAMS:

EDWARDS (EDW) – LAKEBEDS RED/STANDING WATER
WHITE SANDS (NOR) – GREEN
KING KHALID (KKI) – 15R/33L CLOSED
NASSAU INTL (YNN) – RWY32 DISP THRESHOLD 3000 FT
LAJES (LAJ) - 15/33 LAST 2K OF ACTIVE RWY CLSD 0800-1900Z
BEN GUERIR (BEN) – NOT RECOMMENDED
BANJUL (BYD) – NOT RECOMMENDED
MONROVIA (LRB) - NOT RECOMMENDED
TAMANRASSETT (ATT) - NOT RECOMMENDED
SOUDA (GSA) – NOT SUPPORTING
DYESS (DYS) – NOT USABLE
ORLANDO (MCO) - 18R/36L CLSD 1230-1430Z DAILY UNTIL 31 JAN 1430Z

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 208 12/23:11
EDW04 ORB 224 13/23:09

OMS TANK FAIL CAPABILITY:

L OMS FAILS: NO
R OMS FAILS: NO

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LEAKING OMS PRPLT BURN:

L OMS LEAK: ALWAYS BURN RETROGRADE
R OMS LEAK: ALWAYS BURN RETROGRADE

OMS QUANTITIES(%)

L OMS OX = 34.1 R OMS OX = 34.2
FU = 33.8 FU = 33.8

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS	281 FPS
ARCS (TOTAL ABOVE QTY1)	29 FPS
TOTAL IN THE AFT	310 FPS
ARCS (TOTAL ABOVE QTY2)	59 FPS
FRCS (ABOVE QTY 1)	30 FPS
AFT QTY 1	83 %
AFT QTY 2	45 %

FIW SUMMARY

<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
P/L	CM2/MIST Flame Tube Pressure Leak	Unable to perform science runs	Crew performed IFM to seal off gas chromatograph sampling line. This fixed the pressure leak and CM2/MIST has been performing successfully.